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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/811,551	03/20/2001	Takeshi Shimoyama	1341.1090	9098	
21171	7590 09/27/2005		EXAM	EXAMINER	
STAAS & HALSEY LLP			FIELDS, CO	FIELDS, COURTNEY D	
SUITE 700 1201 NEW YO	ORK AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTO	ON, DC 20005		2137		
			DATE MAILED: 09/27/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental							
Notice	of Allo	wability					

Application No.	Applicant(s)	
09/811,551	SHIMOYAMA ET AL.	
Examiner	Art Unit	
Courtney D. Fields	2137	

Notice of Anowabinity	_xammer	Ait Oill	
	Courtney D. Fields	2137	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (O herewith (or previously mailed), a Notice of Allowance (PTOL-85) or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGI of the Office or upon petition by the applicant. See 37 CFR 1.313 a	PR REMAINS) CLOSED in this app rother appropriate communication HTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. $oxed{oxed}$ This communication is responsive to <u>Request for Copy of IDS</u>	S received on July 15, 2005.		•
2. ☑ The allowed claim(s) is/are <u>1,3-11 and 13-24</u> .			
3. $igotimes$ The drawings filed on 20 March 2001 are accepted by the Ex	caminer.		
4. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have b 2. Certified copies of the priority documents have b 3. Copies of the certified copies of the priority documents have b 4. Certified copies of the priority documents have b 5. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted in INFORMAL PATENT APPLICATION (PTO-152) which gives have a compared by the Notice of Draftspersor and including changes required by the Notice of Draftspersor and including changes required by the attached Examiner's A Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date DEPOSIT OF and/or INFORMATION about the deposite attached Examiner's comment regarding REQUIREMENT FOR the priority documents have be submitted.	een received. een received in Application No ments have been received in this r this communication to file a reply of NT of this application. ed. Note the attached EXAMINER' reason(s) why the oath or declarate be submitted. n's Patent Drawing Review (PTO- Amendment / Comment or in the Of (c) should be written on the drawing header according to 37 CFR 1.121(c) t of BIOLOGICAL MATERIAL in	national stage applicational stage applicational stage application of the front (not the first be submitted.)	quirements OTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 15 July 2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other EMMAN	(PTO-413), te ment/Comment	,

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DETAILED ACTION

Response to Amendment

- 1. The Examiner has accepted changes made to the claims.
- 2. Claims 1,3-11 and 13-22 have been amended.
- Claims 2 and 12 have been cancelled.
- 4. Claims 23 and 24 have been added.
- 5. Claims 1,3-11 and 13-24 are pending.

Response to Arguments

6. Applicant's arguments filed 07 January 2005 have been fully considered and they are persuasive.

Allowable Subject Matter

- 7. Claims 1,3-11, and 13-24 are allowed.
- 8. The following is an examiner's statement of reasons for allowance: The present invention is directed toward a non-linear transformation on an intermediate data group according to the number of times specified for each extended key, allowing extended keys to be safely processed at high speeds. Each independent claim identifies the uniquely distinct feature "wherein the intermediate data preparing unit is provided with a nonlinear type operating unit for effecting an nonlinear type operation with respect to each bit group to prepare the intermediate data groups". The closest prior art Kanda et al. (EP 1001398) discloses an encryption device for concealing data in data communications or storage using a secret key algorithm, performing non-linear

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transformation according to the number of keys, either singularly or in combination, fail to anticipate or render the above underlined limitations above.

9. Therefore, claims 1,11,21-24 and the respective dependent claims 3-10 and 12-20 are in condition for allowance.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney D. Fields whose telephone number is 571-272-3871. The examiner can normally be reached on Mon - Thurs. 6:00 - 4:00 pm; off every Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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cdf

April 27, 2005

EMMANUEL L. MOISE SUPERVISORY PATENT EVANARIA